

FORM PTO-1390 (REV. 01-2003)		US DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER 125619	
<b>TRANSMITTAL LETTER TO THE UNITED STATES          DESIGNATED/ELECTED OFFICE (DO/EO/US)          CONCERNING A FILING UNDER 35 U.S.C. 371</b>				U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/553,211	
INTERNATIONAL APPLICATION NO. PCT/EP2004/004506		INTERNATIONAL FILING DATE April 28, 2004		PRIORITY DATE CLAIMED April 29, 2003	
TITLE OF INVENTION ANTISOLVENT SOLIDIFICATION PROCESS					
APPLICANTS FOR DO/EO/US Wridzer Jan Willem BAKKER; Robert Michael GEERTMAN; Marianne Frederika REEDIJK; Jozef Johannes Maria BALTUSSEN; Gerrald BARGEMAN; Cornelis Elizabeth Johannis VAN LARE					
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:					
<ol style="list-style-type: none"> <li>1. <input type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input checked="" type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2))           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> <li>c. <input type="checkbox"/> The International Application was filed in English.</li> </ol> </li> <li>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol>					
<b>Items 11 to 20 below concern document(s) or information included:</b>					
<ol style="list-style-type: none"> <li>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input type="checkbox"/> A preliminary amendment.</li> <li>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>20. <input type="checkbox"/> Other items or information:</li> </ol>					

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21. <input type="checkbox"/> The following fees are submitted:				<b>CALCULATIONS      PTO USE ONLY</b>	
BASIC NATIONAL FEE (37 CFR 1.492(a)): .....				\$ 300.00	\$
SEARCH FEE (37 CFR 1.492(b)(1)-(3)):					\$
International preliminary examination report or written opinion prepared by the USPTO as IPEA or ISA and favorable as to novelty, inventive step, and industrial applicability for all claims presented in the application entering the national stage .....				\$ 0.00	
International search fee (37 CFR 1.445(a)(2)) paid to USPTO as ISA.....				\$ 100.00	
International search report provided to USPTO no later than the time at which the search fee is paid .....				\$ 400.00	
All situations not provided for above .....				\$ 500.00	
EXAMINATION FEE (37 CFR 1.492(c)(1)-(2)):					\$
International preliminary examination report or written opinion prepared by the USPTO as IPEA or ISA and favorable as to novelty, inventive step, and industrial applicability for all claims presented in the application entering the national stage .....				\$ 0.00	
All situations not provided for above .....				\$ 200.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).					\$
TOTAL PAGES OF APPLICATION OVER 100 ( - 100)	÷ 50	= †	x 250 =	\$	
†round up to next integer					
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
TOTAL CLAIMS	- 20	=	x 50.00 =	\$	
INDEPENDENT CLAIMS	- 3	=	x 200.00 =	\$	
MULTIPLE DEPENDENT CLAIM(S)(if applicable)			+ 360.00 =	\$	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by ½.				\$	
<b>SUBTOTAL =</b>				\$	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	
<b>TOTAL NATIONAL FEE =</b>				\$	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				\$	
<b>TOTAL FEES ENCLOSED =</b>				\$	
				Amount to be refunded:	\$
				charged:	\$
a. <input type="checkbox"/> Check No. _____ in the amount of \$_____ to cover the above fees is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$_____ to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 15-0461. A duplicate copy of this sheet is enclosed. d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.					
<b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.					
SEND ALL CORRESPONDENCE TO: OLIFF & BERRIDGE, PLC Customer Number: 25944					
				NAME: William P. Berridge REGISTRATION NUMBER: 30,024	
Date <u>January 20, 2006</u>					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Wridzer Jan Willem BAKKER et al.

Application No.: 10/553,211

Group Art Unit: 1615

Filed: December 8, 2005

Docket No.: 125619

For: ANTISOLVENT SOLIDIFICATION PROCESS

INFORMATION DISCLOSURE STATEMENT

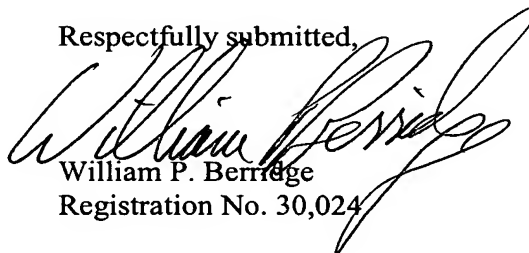
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- ☒ 2. Relevance of references 12-13 and 55-62 is discussed in the present specification.
- ☒ 3. References 1 and 11 were cited in the International Search Report. An English language version of the International Search Report is attached for the Examiner's information.
- ☒ 4. In accordance with 37 CFR §1.98(a)(2)(ii), copies of any U.S. patents and patent application publications are not attached.
- ☒ 5. English language Abstracts of references 25, 27-29, 31-32, 34, 36-37, 39-41, 47-50, 52-54, 82, 86 and 92 are attached hereto.

Respectfully submitted,



William P. Berridge  
Registration No. 30,024

WPB/nxy

Date: January 20, 2006

**OLIFF & BERRIDGE, PLC**  
**P.O. Box 19928**  
**Alexandria, Virginia 22320**  
**Telephone: (703) 836-6400**

<p>DEPOSIT ACCOUNT USE AUTHORIZATION Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461</p>
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Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 125619		APPLICATION NO. 10/553,211	
INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)				APPLICANTS Wridzer Jan Willem BAKKER et al.  FILING DATE December 8, 2005			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
	1.	6,221,398	04/24/2001	Edib JAKUPOVIC et al.			
	2.	5,269,926	12/14/1993	Elizabeth WEBSTER et al.			
	3.	5,278,106	01/11/1994	Tadao NAKASHIMA et al.			
	4.	6,514,958	02/04/2003	Pieter de HAAN et al.			
	5.	5,864,923	02/02/1999	Stephane Fabrice ROUANET et al.			
	6.	2003/0176282 A1	09/18/2003	Troy Ronald SEEHAFFER et al.			
	7.	6,387,399	05/14/2002	Dennis R. MORRISON et al.			
	8.	5,876,480	03/02/1999	Michael MARKOWITZ et al.			
	9.	2002/0050659 A1	05/02/2002	William TOREKI et al.			
	10.	2002/0119916 A1	08/29/2002	EmadEldin M. HASSAN et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
	11.	WO 03/032951 A1	04/24/2003	WIPO			
	12.	WO 90/03782 A2	04/19/1990	WIPO			
	13.	WO 00/38811 A1	07/06/2000	WIPO			
	14.	EP 0 586 745 A1	03/16/1994	EUROPEAN PATENT OFFICE			
	15.	WO 00/42078 A1	07/20/2000	WIPO			
	16.	WO 99/05101 A1	02/04/1999	WIPO			
	17.	WO 98/30650 A1	07/16/1998	WIPO			
	18.	WO 98/18835 A1	05/07/1998	WIPO			
	19.	WO 97/49759 A1	12/31/1997	WIPO			
	20.	EP 0 492 712 A1	07/01/1992	EUROPEAN PATENT OFFICE			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
EXAMINER					DATE CONSIDERED		
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
	21.	EP 0 672 351 A1	09/20/1995	EUROPEAN PATENT OFFICE			
	22.	WO 03/014196 A1	02/20/2003	WIPO			
	23.	WO 98/47517 A1	10/29/1998	WIPO			
	24.	EP 0 481 892 B1	03/06/1996	EUROPEAN PATENT OFFICE			
	25.	JP-A-02-214537 w/ abst.	08/27/1990	JAPAN			
	26.	EP 0 452 140 A1	10/16/1991	EUROPEAN PATENT OFFICE			
	27.	JP-A-04-100536 w/ abst.	04/02/1992	JAPAN			
	28.	JP-A-04-320643 w/ abst.	11/11/1992	JAPAN			
	29.	JP-A-05-184895 w/ abst.	07/27/1993	JAPAN			
	30.	EP 0 564 738 A1	10/13/1993	EUROPEAN PATENT OFFICE			
	31.	JP-A-06-039259 w/ abst.	02/15/1994	JAPAN			
	32.	WO 94/08626 A1 w/ abst.	04/28/1994	WIPO			
	33.	EP 0 685 167 A1	12/06/1995	EUROPEAN PATENT OFFICE			
	34.	EP 0 780 114 A1 w/ abst.	06/25/1997	EUROPEAN PATENT OFFICE			
	35.	EP 0 121 265 A2	10/10/1984	EUROPEAN PATENT OFFICE			
	36.	JP-A-02-006502 w/ abst.	01/10/1990	JAPAN			
	37.	JP-A-06-118636 w/ abst.	04/28/1994	JAPAN			
	38.	WO 97/36674 A1	10/09/1997	WIPO			
	39.	JP-A-04-258601 w/ abst.	09/14/1992	JAPAN			
	40.	JP-A-04-323224 w/ abst.	11/12/1992	JAPAN			
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	41.	JP-A-05-064738 w/ abst.	03/19/1993	JAPAN			
	42.	JP-A-06-001854	01/11/1994	JAPAN			
	43.	JP-A-08-082384	03/26/1996	JAPAN			
	44.	JP-A-07-157788	06/20/1995	JAPAN			
	45.	JP-A-07-258359	10/09/1995	JAPAN			
	46.	EP 0 765 896 A1	04/02/1997	EUROPEAN PATENT OFFICE			
	47.	JP-A-10-137577 w/ abst.	05/26/1998	JAPAN			
	48.	JP-A-2000-053710 w/ abst.	02/22/2000	JAPAN			
	49.	DE 33 04 830 A1 w/ abst.	08/25/1983	GERMANY			
	50.	JP-A-02-265642 w/ abst.	10/30/1990	JAPAN			
	51.	EP 0 433 094 A1	06/19/1991	EUROPEAN PATENT OFFICE			
	52.	JP-A-05-184910 w/ abst.	07/27/1993	JAPAN			
	53.	JP-A-05-184911 w/ abst.	07/27/1993	JAPAN			
	54.	WO 02/02647 A1 w/ abst.	01/10/2002	WIPO			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
	55.	John TEXTER; "Organic Particle Precipitation"; <i>Reactions and Synthesis in Surfactant Systems</i> ; 2001; pp. 577-607.					
	56.	M. NOCENT et al.; "Definition of a Solvent System for Spherical Crystallization of Salbutamol Sulfate by Quasi-Emulsion Solvent Diffusion (QESD) Method"; <i>Journal of Pharmaceutical Sciences</i> ; Vol. 90, No. 10; October 2001; pp. 1620-1627.					
	57.	H. KROEBER et al.; "Micronization of Organic Materials by Crystallization with Compressed Gases"; 15 <sup>th</sup> International Symposium on Industrial Crystallisation; Sorrento, Italy; September 2002.					
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
	58.	F. ESPITALIER et al.; "Crystallization of an Active Substance from Emulsion Droplets. Interactions Between Usage Properties and Process"; 12 <sup>th</sup> Symposium on Industrial Crystallisation; Vol. 1; September 1993; pp. 25-31.					
	59.	R. A. WILLIAMS et al.; "Controlled Production of Emulsions Using a Crossflow Membrane; Part II: Industrial Scale Manufacture"; <i>Trans IChemE</i> ; Vol. 76; 1998; pp. 902-911.					
	60.	Efrem CURCIO et al.; "Membrane Crystallizers"; <i>Ind. Eng. Chem. Res.</i> ; Vol. 40; 2001; pp. 2679-2684.					
	61.	Jia ZHIQIAN et al.; "Synthesis of nanosized BaSO <sub>4</sub> particles with a membrane reactor: effects of operating parameters on particles"; <i>Journal of Membrane Science</i> ; Vol. 209; 2002; pp. 153-161.					
	62.	Jia ZHIQIAN et al.; "Synthesis of nanosized BaSO <sub>4</sub> and CaCO <sub>3</sub> particles with a membrane reactor: effects of additives on particles"; <i>Journal of Colloid and Interface Sciences</i> ; Vol. 266; 2003; pp. 322-327.					
	63.	J. W. MULLIN et al.; <u>Crystallization</u> ; Third Edition; Butterworth-Heinemann, Ltd., Oxford; 1993.					
	64.	Allan S. MYERSON; <u>Handbook of Industrial Crystallization</u> ; Butterworth-Heinemann Series in Chemical Engineering, Boston; 1993.					
	65.	A. MERSMAN et al.; "Chapter 5: Crystallization"; <u>Advances in Transport Processes VIII</u> ; 1992; pp. 287-318.					
	66.	T. G. ZIJLEMA et al.; "Antisolvent Crystallisation as an Alternative to Evaporative crystallization for the Production of Sodium Chloride"; World Salt Symposium, 8 <sup>th</sup> ; The Hague, Netherlands; May 7-11, 2000; pp. 495-500.					
	67.	Hiroshi TAKIYAMA et al.; "Growth phenomena and morphology of NaCl crystals in drowning-out precipitation operation"; Advanced Purification in Crystallization Consortium; March 1996-March 1999; pp. 459-464					
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	68.	J. MYDLARZ et al.; "Crystallization and agglomeration kinetics during the batch drowning-out precipitation of potash alum with aqueous acetone"; <i>Powder Technology</i> ; Vol. 65; 1991; pp.187-194.					
	69.	Tjakko ZIJLEMA; "The Antisolvent Crystallisation of Sodium Chloride"; PhD Thesis; Delft University of Technology; Delft University Press; October 19, 1999.					
	70.	Harald OOSTERHOF; "Antisolvent crystallization of Sodium Carbonate"; PhD Thesis; Delft University of Technology; Universal Press Science Publishers, Veenendaal; December 13, 1999.					
	71.	P. PUHLFÜRß et al.; "Microporous TiO <sub>2</sub> membranes with a cut off <500 Da"; <i>Journal of Membrane Science</i> ; Vol. 174; 2000; pp. 123-133.					
	72.	M. A. M. BEERLAGE; "Polyimide ultrafiltration membranes for non-aqueous systems"; PhD Thesis; Universiteit Twente; 1994.					
	73.	H. J. ZWIJNENBERG et al.; "Acetone-Stable Nanofiltration Membranes in Deacidifying Vegetable Oil"; <i>J. Am. Oil. Chem. Soc.</i> ; Vol. 76, No. 1; 1999; pp. 83-87.					
	74.	D. BHANUSHALI et al.; "Performance of solvent-resistant membranes for non-aqueous systems: solvent permeation results and modeling"; <i>Journal of Membrane Science</i> ; Vol. 189; 2001; pp. 1-21.					
	75.	X. J. YANG et al.; "Experimental observations of nanofiltration with organic solvents"; <i>Journal of Membrane Science</i> ; Vol. 190; 2001; pp. 45-55.					
	76.	J. A. WHU et al.; "Nanofiltration studies of larger organic microsolute in methanol solutions"; <i>Journal of Membrane Science</i> ; Vol. 170; 2000; pp. 159-172.					
	77.	Toshinori TSURU et al.; "Nanofiltration in non-aqueous solutions by porous silica-zirconia membranes"; <i>Journal of Membrane Science</i> ; Vol. 185; 2001; pp. 253-261.					
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	78.	G. H. KOOPS et al.; "Separation of linear hydrocarbons and carboxylic acids from ethanol and hexane solutions by reverse osmosis"; <i>Journal of Membrane Science</i> ; Vol. 189; 2001; pp. 241-254.					
	79.	Simon M. JOSCELYNE et al.; "Membrane emulsification--a literature review"; <i>Journal of Membrane Science</i> ; Vol. 169; 2000; pp. 107-117.					
	80.	Goran T. VLADISAVLJEVIC et al.; "Membrane Emulsification--State of the Art"; <i>Chem. Ind.</i> ; Vol. 54, No. 12; 2000; pp. 523-529.					
	81.	Simon M. JOSCELYNE et al.; "Food emulsions using membrane emulsification: conditions for producing small droplets"; <i>Journal of Food Engineering</i> ; Vol. 39; 1999; pp. 59-64.					
	82.	Ryoh KATOH et al.; "Conditions for Preparation of W/O Food Emulsions Using a Membrane Emulsification System"; <i>Nippon Shokuhin Kagaku Kogaku Kaishi</i> ; Vol. 44, No. 1; 1997; pp. 44-49. (with abstract)					
	83.	R. H. PERRY; "22-18 Alternative Separation Processes"; <i>Perry's Chemical Engineering Handbook</i> ; 7 <sup>th</sup> Edition; 1997.					
	84.	Christopher A. FINCH et al.; "Microencapsulation: Section 4. Production"; <i>Ullmann's Encyclopedia of Industrial Chemistry</i> ; online DOI; article online posting date: June 15, 2000.					
	85.	Russell J. MUMPER et al.; "Nanotemplate Engineering of Cell Specific Nanoparticles"; <i>Journal of Dispersion Science and Technology</i> ; Vol. 24, No. 3 & 4; 2003; pp. 569-588.					
	86.	Claudia WEISS et al.; "Modellierung von Stofftransport und Kristallisation in dispersen Systemen"; <i>Chemie Ingenieur Technik</i> ; Vol. 71; 1999; pp. 1262-1265. (with abstract)					
	87.	Paul HOLISTER; "NANOTECH: The Tiny Revolution"; CMP Cientifica; July 2002.					
EXAMINER					DATE CONSIDERED		
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 125619		APPLICATION NO. 10/553,211	
INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)				APPLICANTS Wridzer Jan Willem BAKKER et al.			
				FILING DATE December 8, 2005		GROUP 1615	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
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